CORNING



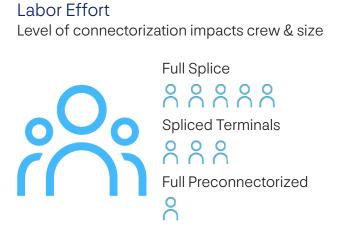


BRING BROADBAND HOME

Distributed Split Architecture Guide



Cost Components Comparison



Material Cost Level of connectorization impacts upfront cost



Full Splice \$ Spliced Terminals

\$

S

Full Preconnectorized \$ \$ \$

Total Cost Labor effort and material cost drive total cost

Full Splice

Spliced Terminals

Full Preconnectorized

Whether your deployment is centralized split, distributed split, or optical tap, you can count on our fiber-to-the-home expertise. Distributed split (DS) architectures are gaining popularity in the United States based on widespread success in Latin America and Europe. By distributing or cascading splits in two or more field locations, the physical volume of products in the field can shrink in size as the ports at each location are shared until the last access point is reached. We've compiled the most commonly used preconnectorized products for distributed split. This document outlines two methods of deploying the distribution portion of the network depending on the level of connectivity used.

Our broad portfolio of products addresses your specific challenges from speed of deployment, labor and cost considerations, performance requirements, future-readiness, and more.

Select your options across these areas of the network:

- (A) Central Office (CO)
- (B) Feeder Cable
- (C) Fiber Distribution Hub (FDH)
- (D & E) Distribution Segment
- (F) Customer Premises

Connectivity for the Win!

We are willing to bet on connectivity for your build. Decades of experience with connectivity have proven a wise investment for network operators around the world.

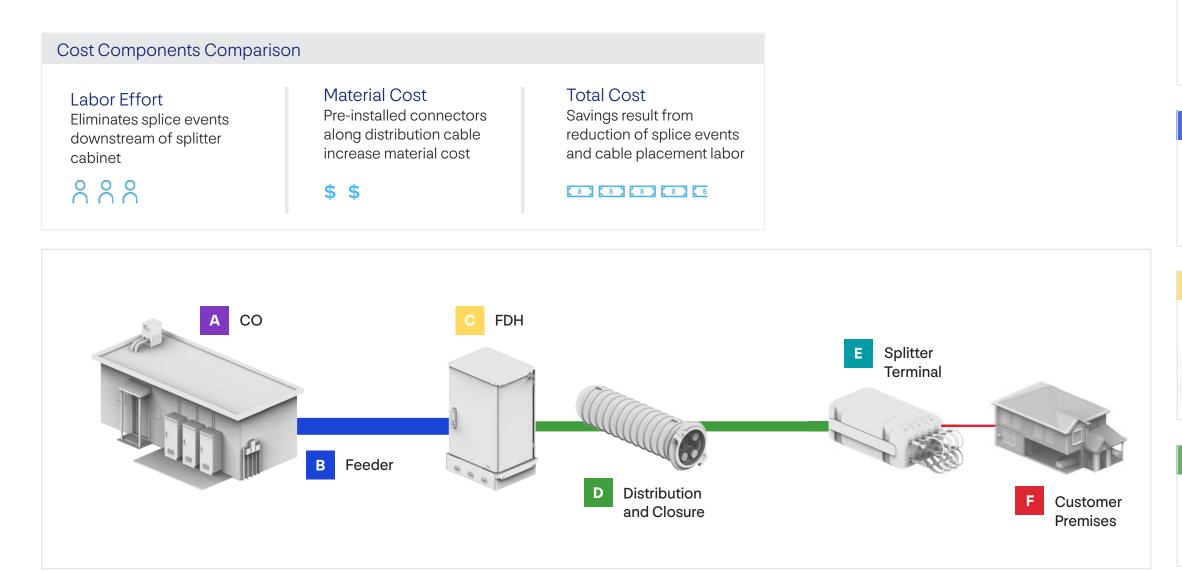
Your next deployment's fully connectorized design is on us.

Reach out to our subject matter experts to get your consultation started at connect@corning.com

Distributed Split Option 1

Spliced Terminals

The distributed split option shown on this page highlights a spliced design. Note: First layer splitters may exist in the fiber distribution hub (FDH), cabinets, or closures.





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Bringing Broadband Home Distributed Split Quick Reference Guide CRR-1954-AEN Page 4

Central Office (CO) Α



The Centrix[™] hardware system is a pay-as-you-grow solution where you can choose to order fully loaded racks/frames on day one, or simply start with a cassette in a housing. The core of the solution is a single, modular cassette that can be tailored to include a variety of optical devices and can contain up to 36 LC connector adapters.

Feeder Cable В



Whether aerial or buried, we have the fiber count, quality, and reliability your network demands. For higher fiber counts, ribbon cable may be a good option for you! For below-grade applications, consider using an armored cable. If you are looking for a solution to place in congested ducts with microducts, MiniXtend® cable may be the right fit.



The Panel Access Cabinet (PAC) series provides everything necessary to manage up to 864 fibers for an outside plant FTTx application in pole- and pad-mount environments. For below-grade installations, the LCPE is designed to house five 1x32 splitters (ordered separately) with preterminated SC APC adapters.

D

Distribution Cable & Splice Closures



Depending on your deployment method and architecture type, cable attributes may vary from self-support to armored or even microduct suitable cables. In the distribution, cables chosen may or may not be identical to the feeder depending on the serving area's needs.

Splitter Terminals E



Evolv[®] terminals are up to 4x smaller, significantly reducing new infrastructure pathway costs or enabling reuse of existing assets.

Customer Premises



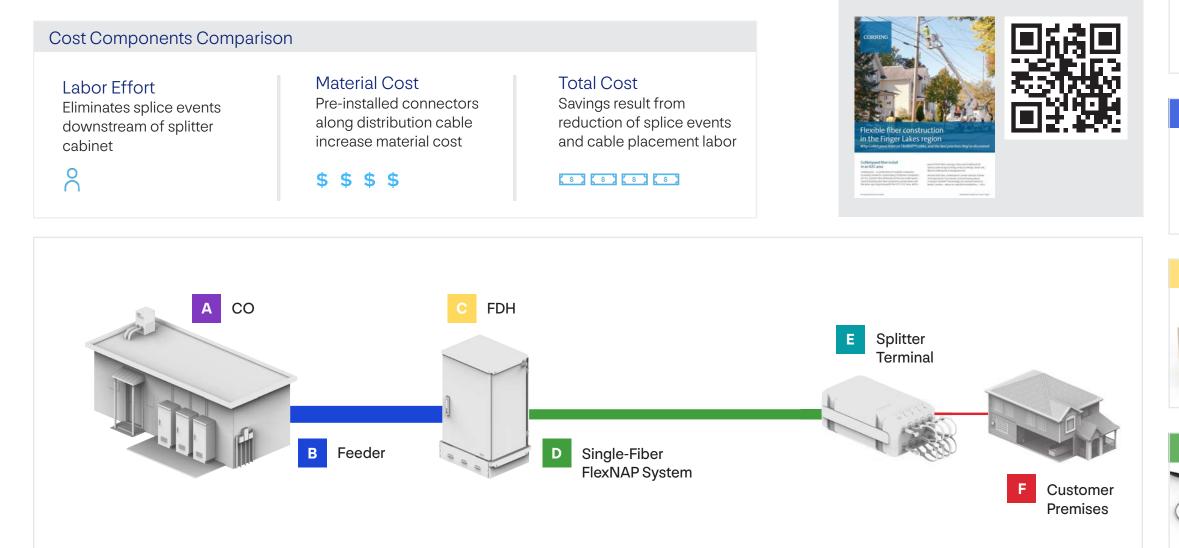
E

Corning's drop cable portfolio and associated assemblies allow for full plug-and-play at the subscriber premises and also support field-installable terminations.

Distributed Split Option 2

Full Preconnectorized

The distributed split option shown on this page highlights a fully preconnectorized design leveraging FlexNAP[™] single-fiber distribution cable. Note: First layer splitters may exist in the fiber distribution hub (FDH), cabinets, or closures.





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E

See How GoNetspeed Deployed This Connectivity Solution.

Central Office (CO) Α



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FlexNAP[™] System D



The FlexNAP system utilizes optical fiber cables upon which network access points are pre-installed at customerspecified locations along the length of the cable. In this design, the FlexNAP system has single-fiber Pushlok® tethers that begin an optical tap chain of terminals.

Splitter Terminals



Evolv[®] terminals are up to 4x smaller, significantly reducing new infrastructure pathway costs or enabling reuse of existing assets.

Customer Premises



Corning's drop cable portfolio and associated assemblies allow for full plug-and-play at the subscriber premises and also support field-installable terminations.

Product Ordering Information

Α	Central Office (CO)	
Part Nun	nber	Description
Frame		
CTX-SA-FRAME-7		Standard Rear Cable Access Frame, 7 ft
Housings		
CTX-S4U		Centrix ^{**} Housing, 4U, 12 cassette positions, empty
CX4WW	P36-B3-2RJ000	432F Centrix 4U Splice Housing, 36F LCA cassettes
CX4U831246C-xx002B		288F Centrix 4U Stubbed Housing, 24F SCA cassettes, 31-m stub, xx cable
Casset	ttes	• •
CTXCMA	00-6C-SP8102	Centrix Splitter Cassette, 1x2 splitter, SC APC,
CTXCMA	00-B3-SP1132	Centrix Splitter Cassette, 1x32 splitter, LC APC
CTX3602	236A9-D9893B	Centrix Stubbed Cassette, 36 LCU to 3 MTP®, 2 m
CTXCPP2	24-6C-2RH000	Centrix Pigtail Cassette, 24 SC APC
CTXCA36	6-B3B	Centrix Patch Cassette, 36 LC APC
Jumpers		
444401G	3116004M	Jumper, SC APC to SC APC, 4-m long, 1.6-mm OD
585801G	3116004M	Jumper, SC UPC to SC UPC, 4-m long, 1.6-mm OD
222201G	3116004M	Jumper, LC APC to LC APC, 4-m long, 1.6-mm OD
0202016	3116004M	Jumper, LC UPC to LC UPC, 4-m long, 1.6-mm OD

B Feed	er Cable		
Part Number	Description		
Ribbon Cables 🗸			
xxxZC5-14100D53	SST-Ribbon [™] Armored Cable (144-864 fibers)		
xxxEC4-14100D53	SST-Ribbon All-Dielectric, Non-Armored (012-216 fibers)		
xxxEV4-14100D53	SST-UltraRibbon™ All-Dielectric, Non-Armored (288-864 fibers)		
xxxEV4-44101D53	RPX® All-Dielectric Self-Supporting Cable (024-144 fibers)		
Loose Tube Cables 🗸			
xxxZU4-T4F22D20	ALTOS [®] Loose Tube Cable (012-288 fibers)		
xxxZUC-T4F22D20	ALTOS Lite Single-Jacket, Armored (012-288 fibers)		
Microduct Cables			
xxxZM4-T4F22A20	MiniXtend® Cable (012-144 fibers)		
xxxZH4-Y4F40A20	MiniXtend HD Cable (144-288 fibers)		
xxxZH4-S4F40A20	MiniXtend HD Cable (288-432 fibers)		

Part Number	Description	
Cabinets/Splice Closures		
SCPP431C41E31V4S00-U	Gen III Series Cabinet, pole mount, 288 fibers, 48-fiber feeder, ribbon cable, 100-ft stubs	
SDPP131UC1C31UCS00-U	Gen III Series Cabinet, pole mount, 144 fibers, 12-fiber feeder, ALTOS [®] armored cable, 100-ft stubs	
PAG- D3DDU4SUCL6C000LXFA-U	Panel Access Cabinet, pole mount, 432 fibers, 72-fiber feeder, 72-fiber pass through, ALTOS Lite armored cable, 31-m stubs	
PAG- C3CCU4SU4P6C000LXFA-U	Panel Access Cabinet, pad mount, 288 fibers, 48-fiber feeder, 48-fiber pass through, ALTOS dielectric cable, 31-m stubs	
EDBS00BBSC00BBS00P-U	Local Convergence Point Enclosure, 144 fibers, loose tube feeder cable, splice capable	
UMR1CC6CZ6C21132	RMS Splitter, 1x32	
WMR4CC6CA6C12014	LS Series Splitter Module, Dual 1x4	
WMR4CC6CA6C12018	LS Series Splitter Module, Dual 1x8	
XSB1DDA91A912014	LCPE Splitter Module, Dual 1x4	
XSB1DDA91A911018	LCPE Splitter Module, 1x8	

D	Option 1: Cable & Splice Closures			
Part Numb	ber	Description		
Ribbon Cables 🗸				
xxxZC5-141	100D53	SST-Ribbon™ Armored (144-864 fibers)		
xxxEC4-141	00D53	SST-Ribbon Dielectric, Non-Armored (012-216 fibers)		
xxxEV4-141	00D53	SST-UltraRibbon [™] Dielectric, Non-Armored (288-864 fibers)		
Loose Tube Cables				
xxxZU4-T4	F22D20	ALTOS Loose Tube Cable (012-288 fibers)		
xxxZUC-T4	F22D20	ALTOS Lite Armored Loose Tube Cable (012-288 fibers)		
Microduct Cables				
xxxZM4-T4	F22A20	MiniXtend Cable (012-144 fibers)		
xxxZH4-Y4	F40A20	MiniXtend HD Cable (144-288 fibers)		
xxxZH4-S4	F40A20	MiniXtend HD Cable (288-432 fibers)		

Option 1: Cable & Splice Closures (continued) D Part Number Description Splice/Splitter Closures \checkmark Fiber Dome Closure, 8 S12 ports, 1 2543-D-XSB FDC-08M-G-NON-01Q-A-00-U tray, 4 single fusion splice holder (48 SF), 2 RF splice holder (144 RF), 1 ground, 2 trays max Fiber Dome Closure, 8 S12 ports, 1 2543-D tray, FDC-08S-G-NON-01R-A-00-U 8 single fusion splice holder (96 SF), 4 RF splice holder (288 RF), 1 ground, 2 trays max SCA Aerial Terminal, SNAP-9T24, standard SCA-9T24-LRS-U \checkmark end caps, direct fusion splicing, 16 drop ports BPEO-S15-AMX-U BPEO Splice Closure Size 1.5, MiniXtend BPEO-SPS-1-PLS-1A04-BZZC2 BPEO Splitter Tray, 5 mm, 1x4, unconnectorized BPEO-SPS-1-PLS-1A08-BZZC2 BPEO Splitter Tray, 5 mm, 1x8, unconnectorized

D	Option 2: FlexNAP [™] System		
Part Number		Des	cription
FlexNAP Trunk Cables			
FNAP-CBL-xxxEU4			NAP Distribution Trunk Cable, ALTOS loose tube cable, ectric, xxx fibers (012 -432 fibers)
FNAP-CBL-xxxEUC			NAP Distribution Trunk Cable, ALTOS loose tube cable, ored, xxx fibers (012-432 fibers)
FlexNAP Tether Attachment Points			
FSD4Axx	D1TN010F	cab	NAP Tether Attachment Point, ALTOS loose tube le, dielectric, Pushlok® connector, aerial, xx tether nt (01 = single tether or 02 = dual tether)
FSD4Cxx	D1RN015F	diel	NAP Tether Attachment Point, ALTOS loose tube cable, ectric, low-profile (up to 72-fiber only), below-grade, xx er count (01 = single tether or 02 = dual tether)
FSDCAxxD1RN015F arm		arm	NAP Tether Attachment Point, ALTOS loose tube cable, ored, Pushlok connector, below-grade, xx tether count = single tether or 02 = dual tether)
Tether Extenders			
D1D101EB49RxxxF-P-U			$PushlokROC^{^{\!$
D1D101EB19RxxxF-P-U			Pushlok ROC Drop Cable, Jumper, toneable, xxx feet
1-Fiber Pushlok Adapter 🛛 🔵			
Adapter-Pushlok-SF			1F to 1F Adapter

E	Splitter Terminals		
Part Nun	nber	Description	
Terminals			\checkmark
DSH2F10	OD1NCOOOSOP-U	Evolv® Splitter Terminal, unstubbed, 1x2 splitter	
DSH4F10	OD1NCOOOSOP-U	Evolv Splitter Terminal, unstubbed, 1x4 splitter	
DSF8F10	OD1NCOOOSOP-U	Evolv Splitter Terminal, unstubbed, 1x8 splitter	
Corning Optical Communications Bringin			Bringing

F Custor	ner Premises		
Part Number	Description		
Drops	\checkmark		
00D101EB49RxxxF-P-U	ROC Drop Cable, Pushlok to Pigtail, dielectric, xxx feet		
00D101EB19RxxxF-P-U	ROC Drop Cable, Pushlok to Pigtail, toneable, xxx feet		
D14401EB4R3xxxF-P-U	ROC Drop Cable, Pushlok to SC, dielectric, xxx feet		
D14401EB1R3xxxF-P-U	ROC Drop Cable, Pushlok to SC, toneable, xxx feet		
00D101UB4JRxxxF-P-U	Round ROC Drop Cable, below-grade jetting/duct, Pushlok to pigtail, xxx feet		
Field-Installable Connectors			
OSNP-SCA-900-Z	OptiSnap® Field-Installable Connector, SC APC, Qty 25		
NPCP-SCA-48	NPC+ (No Polish Connector), field-installable SC APC, compatible with 250 μm and 900 μm fiber, no toolkit required, package of 48 connectors		
TKT-OPTISNAP-CF	OptiSnap Connector Installation Toolkit with flat cleaver (FBC-009), fiber prep and cleaning supplies, gray case		
TKT-NPCP-FBC007	FBC-007 precision cleaver plus accessories for NPC+		
Fiber Transition Housing			
FTH-602-A1100-U	Fiber Transition Housing, 1 SC APC simplex adapter, ground post for toning, hex security screw, 3-m slack storage		
FTH-602-A0100-U	Fiber Transition Housing, 1 SC APC simplex adapter, hex security screw, 3-m slack storage		

Build America, Buy America Act (BABAA) Compliance

✓ **Produced in the United States:** Meets requirements of the Build America, Buy America Act (BABAA), and 2 C.F.R. 184. All fiber, cable, and preform manufacturing occurs in the United States. For each manufactured product, at least 55% of the content is produced in the United States.

Waived: Meets requirements of NTIA's Limited General Applicability, Nonavailability Waiver of the Buy America Domestic Content Procurement Preference as Applied to the BEAD Program.

Suggested de Minimis: Minor hardware that Corning believes will not exceed the thresholds under the de minimis waiver. De minimis products may cumulatively comprise up to the lesser of 5% of the total applicable project costs, or \$1,000,000.



To meet your requirements, we've nurtured long-term relationships with authorized distributors who stock our products and further support your needs including training, customer needs assessment, logistics, and equipment. Whether you are an end user, contractor, or installer, connect with our authorized distributors to purchase your Corning solution today.



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